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THE CAPILLARY PRESS, A SMOKING
MACHINE FOR PREPARING INSTANT
SMOKE CONDENSATE.

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ABSTRACT

This paper describes the construction and working principle of an automatic capillary press, a smoking machine for preparing instant smoke condensate from 15 cigarettes per smoking procedure. The smoking capacity is 500 cigt/day. Condensate production by means of total yield, as well as by means of individual puff yield, is possible. The reproducibility of smoke condensate and smoke nicotine yield is 2.5% RSD.

The smoking machine-vacuum pump-precipitation part allows variation of smoking parameter and precipitation conditions. Consequently, the precipitation system can be substituted as desired. In all cases free or restricted smoking is possible.

Changes in the results of total yield and individual puff yields as a function of initial tobacco moisture content as well as different precipitation procedures are indicated. The data for free and restricted smoking obtained from the capillary press are compared with those obtained from B.A.T. - 15 channel smoking machine with electrostatic precipitation.

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